

**ABSTRACT**

An apparatus and a method for correcting keystone distortions in a display system are disclosed. A horizontal size generator first receives N horizontal sync signals of an input image and generates N corresponding horizontal output sizes. Each of the output sizes is generated at each sync signal based on a horizontal input size, a vertical size, and a desired keystone factor or each of horizontal keystone offsets of the input image. A format converter then receives said input image and generates an output image. Each line of the output image now has the corresponding horizontal output size.